ELSEVIER

1 March 2000

Optics Communications 175 (2000) 481–487

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Author index to volume 175

Ahn, J.T., see Jeon, M.-Y. 175 (2000) 253
Aitken, P., see Ginzburg, N.S. 175 (2000) 139
Alberdi, E., M. Lehman, R. Torroba and M. Garavaglia, Entropic propagation of Gaussian and super-Gaussian-like beams 175 (2000) 1
Allan, D.C., see Kuchinsky, S. 175 (2000) 147
Allen, J.W., see Conroy, R.S. 175 (2000) 185
Armstrong, M., X. Zhu, J. Montgomery and R.J.D. Miller, Novel composite structure Nd:YAG gain media for high power scaling of side-pumped configurations 175 (2000) 201
Astilean, S., Ph. Lalanne and M. Palamaru, Light transmission through metallic channels much smaller than the wavelength 175 (2000) 265
Aufmuth, P., see Lück, H. 175 (2000) 275

Bainier, C., see Vannier, C. 175 (2000) 83
Banerjee, P.P., see Dimmock, J.O. 175 (2000) 433
Barnes, T.H., see Wu, C.Y. 175 (2000) 27
Barty, A., K.A. Nugent, A. Roberts and D. Paganin, Quantitative phase tomography 175 (2000) 329
Belafhal, A., L. Dalil-Essakali and M. Fahad, Fraunhofer diffraction by conical tracks 175 (2000) 51
Birch, P., R. Young, C. Chatwin, M. Farsari, D. Budgett and J. Richardson, Fully complex optical modulation with an analogue ferroelectric liquid crystal spatial light modulator 175 (2000) 347
Bohórquez-Ballén, J., see Castañeda, R. 175 (2000) 337
Borrelli, N.F., see Kuchinsky, S. 175 (2000) 147
Bryngdahl, O., see Lack, D. 175 (2000) 33
Budgett, D., see Birch, P. 175 (2000) 347
Buxens, A., see Yu, J. 175 (2000) 173

Capobianco, A.D., see Tonello, A. 175 (2000) 103
Castañeda, R. and J. Bohórquez-Ballén, Spatial coherence beams in critical illumination for optical microscopes 175 (2000) 337
Chandonnet, A., see Laperle, P. 175 (2000) 221
Chang, D.I., see Jeon, M.-Y. 175 (2000) 253
Chao, W., Dynamical behaviour of unbounded spatial solitons in self-defocusing media with small $\chi^{(5)}$ self-focusing nonlinearity 175 (2000) 239
Chatwin, C., see Birch, P. 175 (2000) 347
Chen, T., see Wang, Z.Y. 175 (2000) 215
Chernikov, S.V., see Koch, F. 175 (2000) 209
Chernikov, S.V., see Reeves-Hall, P.C. 175 (2000) 361
Cheyssac, P., V.A. Sterligov, S.I. Lysenko and R. Kofman, Scattering of surface plasmon-polaritons and light by metallic nanoparticles 175 (2000) 383

PII: S0030-4018(00)00553-8

Chi, S., see Lee, C.C. 175 (2000) 125
Chin, S.L., see Petit, S. 175 (2000) 323
Cives-Esclop, A., A. Luis and L.L. Sánchez-Soto, Unbalanced homodyne detection with a weak local oscillator 175 (2000) 153
Cole, M.J., see Parsons-Karavassilis, D. 175 (2000) 389
Conroy, R.S., J.J. Hewett, G.P.T. Lancaster, W. Sibbett, J.W. Allen and K. Dholakia, Characterisation of an extended cavity violet diode laser 175 (2000) 185
Cotteverte, J.-C., see Kuchinsky, S. 175 (2000) 147
Courjon, D., see Vannier, C. 175 (2000) 83
Crofts, G.J. and M.J. Damzen, Numerical modelling of continuous-wave holographic laser oscillators 175 (2000) 397
Cross, A.W., see Ginzburg, N.S. 175 (2000) 139

Dalil-Essakali, L., see Belafhal, A. 175 (2000) 51
Damzen, M.J., see Crofts, G.J. 175 (2000) 397
Danzmann, K., see Lück, H. 175 (2000) 275
Darudi, A., see Tavassoly, M.T. 175 (2000) 43
De Angelis, M., S. De Nicola, P. Ferraro, A. Finizio and G. Pierattini, Liquid refractometer based on interferometric fringe projection 175 (2000) 315
De Nicola, S., see de Angelis, M. 175 (2000) 315
Dholakia, K., see Conroy, R.S. 175 (2000) 185
Dickinson, B.C., see Golding, P.S. 175 (2000) 179
Diels, J.-C., see Jason Jones, R. 175 (2000) 409
Dimmock, J.O., P.P. Banerjee, F.L. Madarasz and N.V. Kukhtarev, Steady state analysis of self-organization of light into a scattering ring due to induced reflection gratings in photorefractive materials 175 (2000) 433

Elkin, N.N., see Wrage, M. 175 (2000) 97

Fahad, M., see Belafhal, A. 175 (2000) 51
Farsari, M., see Birch, P. 175 (2000) 347
Ferraro, P., see de Angelis, M. 175 (2000) 315
Finizio, A., see de Angelis, M. 175 (2000) 315
French, P.M.W., see Parsons-Karavassilis, D. 175 (2000) 389

Garavaglia, M., see Alberdi, E. 175 (2000) 1
Ginzburg, N.S., A.S. Sergeev, Yu.V. Novozhilova, I.V. Zotova, R.M. Rosenthal, A.D.R. Phelps, A.W. Cross, P. Aitken, V.G. Shpak, M.I. Yalandin, S.A. Shunailov and M.R. Ulmaskulov, Experimental observation of Cherenkov superradiance from an intense electron bunch 175 (2000) 139
Glas, P., see Wrage, M. 175 (2000) 97
Glesk, I., see Toliver, P. 175 (2000) 365
Glückstad, J., see Mogensen, P.C. 175 (2000) 75
Golding, P.S., S.D. Jackson, P.-K. Tsai, B.C. Dickinson and T.A. King, Efficient high power operation of a Tm-doped silica fiber laser pumped at 1.319 μm 175 (2000) 179
Goudail, F., see Pagé, V. 175 (2000) 57
Gu, M., see Ke, P.C. 175 (2000) 479
Gupta, B.D., see Khijwania, S.K. 175 (2000) 135

Haskell, T.G., see Wu, C.Y. 175 (2000) 27
He, P., see Wang, Z.Y. 175 (2000) 215
Hewett, J.J., see Conroy, R.S. 175 (2000) 185
Hou, C., see Yuan, B. 175 (2000) 233
Hou, X., see Yao, B. 175 (2000) 375
Hua, R., S. Wada and H. Tashiro, Principles and limitations of a quarter-wave plate for reducing the depolarization loss from thermally induced birefringence in Nd:YAG lasers 175 (2000) 189

Ichikawa, H. and K. Minoshima, Erratum to "Femtosecond laser pulses diffracted by dielectric transmission gratings in the resonance-domain" [Opt. Commun. 163 (1999) 243–251] 175 (2000) 257

Jackson, S.D., see Golding, P.S. 175 (2000) 179
Jasapara, J., see Jason Jones, R. 175 (2000) 409
Jason Jones, R., J.-C. Diels, J. Jasapara and W. Rudolph, Stabilization of the frequency, phase, and repetition rate of an ultra-short pulse train to a Fabry–Perot reference cavity 175 (2000) 409
Jeon, M.-Y., H.K. Lee, J.T. Ahn, D.S. Lim, D.I. Chang and K.H. Kim, All-optical demultiplexing scheme using an optical parametric loop mirror 175 (2000) 253
Jeong, J., see Kim, S.K. 175 (2000) 109
Jeppesen, P., see Yu, J. 175 (2000) 173
Jin, G., see Tan, Q. 175 (2000) 13
Jones, R., see Parsons-Karavassilis, D. 175 (2000) 389
Junnarkar, M.R. and N. Uesugi, Near two-photon resonance short pulse compression in atomic noble gases 175 (2000) 447

Ke, P.C. and M. Gu, Erratum to "Dependence of strength and depolarization of scattered evanescent waves on the size of laser-trapped dielectric particles" [Opt. Commun. 171 (1999) 205–211] 175 (2000) 479
Khijwania, S.K. and B.D. Gupta, Maximum achievable sensitivity of the fiber optic evanescent field absorption sensor based on the U-shaped probe 175 (2000) 135
Khonina, S.N., V.V. Kotlyar, R.V. Skidanov, V.A. Soifer, P. Laakkonen and J. Turunen, Gauss–Laguerre modes with different indices in prescribed diffraction orders of a diffractive phase element 175 (2000) 301
Kim, K.H., see Jeon, M.-Y. 175 (2000) 253
Kim, S.K. and J. Jeong, Transmission performance on frequency response of receivers and chirping shape of transmitters for 10 Gb/s $LiNbO_3$ modulator based lightwave systems 175 (2000) 109
King, T.A., see Golding, P.S. 175 (2000) 179
Koch, F., S.V. Chernikov and J.R. Taylor, Dispersion measurement in optical fibres over the entire spectral range from 1.1 μm to 1.7 μm 175 (2000) 209
Kofman, R., see Cheyssac, P. 175 (2000) 383
Kotlyar, V.V., see Khonina, S.N. 175 (2000) 301
Kuchinsky, S., D.C. Allan, N.F. Borrelli and J.-C. Cotteverte, 3D localization in a channel waveguide in a photonic crystal with 2D periodicity 175 (2000) 147
Kukhtarev, N.V., see Dimmock, J.O. 175 (2000) 433

Laakkonen, P., see Khonina, S.N. 175 (2000) 301
Lack, D., T. Zeggel and O. Bryngdahl, Multi-level image quantization with object-dependent spectral control 175 (2000) 33

Lalanne, Ph., see Astilean, S. 175 (2000) 265
Lancaster, D.G., R. Weidner, D. Richter, F.K. Tittel and J. Limpert, Compact CH_4 sensor based on difference frequency mixing of diode lasers in quasi-phasematched $LiNbO_3$ 175 (2000) 461
Lancaster, G.P.T., see Conroy, R.S. 175 (2000) 185
Laperle, P., R. Vallée and A. Chandonnet, Stability aspects in the operation of a 2500-ppm thulium-doped ZBLAN fiber laser at 481 nm 175 (2000) 221
Lee, C.C. and S. Chi, The improvement of composite triple-beat distortion induced by cross-phase-modulation in wavelength-division-multiplexing CATV transmission systems with chirped fiber grating compensator 175 (2000) 125
Lee, H.K., see Jeon, M.-Y. 175 (2000) 253
Lehman, M., see Alberdi, E. 175 (2000) 1
Leitner, M., see Wrage, M. 175 (2000) 97
Lewis, S.A.E., see Reeves-Hall, P.C. 175 (2000) 361
Li, C., see Yuan, B. 175 (2000) 233
Li, M., see Yang, C. 175 (2000) 247
Li, Y., H. Schillinger, C. Ziener and R. Sauerbrey, Erratum to "Reinvestigation of the Duguay soft X-ray laser: a new parameter space for high power femtosecond laser pumped systems" [Opt. Commun. 144 (1997) 118–124] 175 (2000) 477
Lim, D.S., see Jeon, M.-Y. 175 (2000) 253
Limpert, J., see Lancaster, D.G. 175 (2000) 461
Lin, Q. and L. Wang, Optical resonators producing partially coherent flat-top beams 175 (2000) 295
Liu, F., see Yu, J. 175 (2000) 173
Liu, Q. and R. Ohba, A simple real-time method for checking parallelism between the two gratings in Talbot interferometry 175 (2000) 19
Lück, H., K.-O. Müller, P. Aufmuth and K. Danzmann, Correction of wavefront distortions by means of thermally adaptive optics 175 (2000) 275
Luis, A., see Cives-Esclop, A. 175 (2000) 153
Lysenko, S.I., see Cheyssac, P. 175 (2000) 383

Madarasz, F.L., see Dimmock, J.O. 175 (2000) 433
Malacara-Hernández, D., see Montoya-Hernández, M. 175 (2000) 259
Masajada, J., Half-plane diffraction in the case of Gaussian beams containing an optical vortex 175 (2000) 289
Mazets, I.E. and L.B. Shifrin, Theory of laser beam propagation through a vapor cell in the collision-free optical pumping regime 175 (2000) 227
Miller, R.J.D., see Armstrong, M. 175 (2000) 201
Minoshima, K., see Ichikawa, H. 175 (2000) 257
Mogensen, P.C. and J. Glückstad, Dynamic array generation and pattern formation for optical tweezers 175 (2000) 75
Montgomery, J., see Armstrong, M. 175 (2000) 201
Montoya-Hernández, M. and D. Malacara-Hernández, Polarization effects in interferograms of radial GRIN rods 175 (2000) 259
Moodie, D.G., see Reeves-Hall, P.C. 175 (2000) 361
Mugnai, D., The tunnel effect in electromagnetic propagation 175 (2000) 309
Müller, K.-O., see Lück, H. 175 (2000) 275
Murugesan, K. and V.C. Ravichandran, Performance analysis of multiwavelength OOCDMA fiber-optic networks 175 (2000) 353

Napartovich, A.P., see Wrage, M. 175 (2000) 97
Novozhilova, Yu.V., see Ginzburg, N.S. 175 (2000) 139
Nugent, K.A., see Barty, A. 175 (2000) 329

Ohba, R., see Liu, Q. 175 (2000) 19
OuYang, Y., see Sun, C.-C. 175 (2000) 67

Paganin, D., see Barty, A. 175 (2000) 329
Pagé, V. and F. Goudail, Phase encoding the input scene of an optical correlator in the presence of nonoverlapping noise 175 (2000) 57
Palamaru, M., see Astilean, S. 175 (2000) 265
Parsons-Karavassilis, D., R. Jones, M.J. Cole, P.M.W. French and J.R. Taylor, Diode-pumped all-solid-state ultrafast Cr:LiSGAF laser oscillator–amplifier system applied to laser ablation 175 (2000) 389
Petit, S., A. Talebpour, A. Proulx and S.L. Chin, Polarization dependence of the propagation of intense laser pulses in air 175 (2000) 323
Phelps, A.D.R., see Ginzburg, N.S. 175 (2000) 139
Phuoc, T.X., Laser spark ignition: experimental determination of laser-induced breakdown thresholds of combustion gases 175 (2000) 419
Pierattini, G., see de Angelis, M. 175 (2000) 315
Proulx, A., see Petit, S. 175 (2000) 323
Prucnal, P.R., see Toliver, P. 175 (2000) 365

Ravichandran, V.C., see Murugesan, K. 175 (2000) 353
Reeves-Hall, P.C., S.A.E. Lewis, D.G. Moodie, S.V. Chernikov and J.R. Taylor, Simultaneous modulation of several WDM channels using a single electro-absorption modulator 175 (2000) 361
Richardson, J., see Birch, P. 175 (2000) 347
Richter, D., see Lancaster, D.G. 175 (2000) 461
Riza, N.A., see Sumriddetchkajorn, S. 175 (2000) 89
Roberts, A., see Barty, A. 175 (2000) 329
Rosenthal, R.M., see Ginzburg, N.S. 175 (2000) 139
Rudolph, W., see Jason Jones, R. 175 (2000) 409
Runser, R.J., see Toliver, P. 175 (2000) 365

Sánchez-Soto, L.L., see Cives-Esclop, A. 175 (2000) 153
Sandrock, T., see Wrage, M. 175 (2000) 97
Sauerbrey, R., see Li, Y. 175 (2000) 477
Schillinger, H., see Li, Y. 175 (2000) 477
Sergeev, A.S., see Ginzburg, N.S. 175 (2000) 139
Shifrin, L.B., see Mazets, I.E. 175 (2000) 227
Shpak, V.G., see Ginzburg, N.S. 175 (2000) 139
Shunailov, S.A., see Ginzburg, N.S. 175 (2000) 139
Sibbett, W., see Conroy, R.S. 175 (2000) 185
Skidanov, R.V., see Khonina, S.N. 175 (2000) 301
Smyth, N.F., Soliton-effect compression and dispersive radiation 175 (2000) 469
Soifer, V.A., see Khonina, S.N. 175 (2000) 301
Somervell, A.R.D., see Wu, C.Y. 175 (2000) 27
Sterligov, V.A., see Cheyssac, P. 175 (2000) 383

Su, W.-C., see Sun, C.-C. 175 (2000) 67
Sukharev, A.G., see Wrage, M. 175 (2000) 97
Sumriddetchkajorn, S. and N.A. Riza, Fiber-connectorized multiwavelength 2×2 switch structure using a fiber loop mirror 175 (2000) 89
Sun, C.-C., W.-C. Su, B. Wang and Y. OuYang, Diffraction selectivity of holograms with random phase encoding 175 (2000) 67
Sun, X., see Yuan, B. 175 (2000) 233

Tabiryan, N.V. and C. Umeton, Measurement of energy density and duration of ultrashort incoherent light pulses with the aid of liquid crystals 175 (2000) 425
Talebpour, A., see Petit, S. 175 (2000) 323
Tan, Q., Y. Yan, G. Jin and M. Wu, Diffractive optical array element for realizing uniform spot on the plane non-perpendicular to the optical axis with geometrical shape transform 175 (2000) 13
Tashiro, H., see Hua, R. 175 (2000) 189
Tavassoly, M.T. and A. Darudi, Reconstruction of interfering wave-fronts by analyzing their interference pattern in three dimensions 175 (2000) 43
Taylor, J.R., see Koch, F. 175 (2000) 209
Taylor, J.R., see Reeves-Hall, P.C. 175 (2000) 361
Taylor, J.R., see Parsons-Karavassilis, D. 175 (2000) 389
Tittel, F.K., see Lancaster, D.G. 175 (2000) 461
Toliver, P., R.J. Runser, I. Glesk and P.R. Prucnal, Comparison of three nonlinear interferometric optical switch geometries 175 (2000) 365
Tonello, A., A.D. Capobianco, S. Wabnitz and S.K. Turitsyn, Tuning of in-line filter position for dispersion-managed soliton transmission 175 (2000) 103
Torroba, R., see Alberdi, E. 175 (2000) 1
Tsai, P.-K., see Golding, P.S. 175 (2000) 179
Turitsyn, S.K., see Tonello, A. 175 (2000) 103
Turunen, J., see Khonina, S.N. 175 (2000) 301

Uesugi, N., see Junnarkar, M.R. 175 (2000) 447
Ulmaskulov, M.R., see Ginzburg, N.S. 175 (2000) 139
Umeton, C., see Tabiryan, N.V. 175 (2000) 425

Vallée, R., see Laperle, P. 175 (2000) 221
Vannier, C., C. Bainier and D. Courjon, Isotropic incoherent scanning tunneling optical microscope (I^2STOM) 175 (2000) 83

Wabnitz, S., see Tonello, A. 175 (2000) 103
Wada, S., see Hua, R. 175 (2000) 189
Wang, B., see Sun, C.-C. 175 (2000) 67
Wang, J., see Yang, G. 175 (2000) 163
Wang, K., see Yang, G. 175 (2000) 163
Wang, L., see Lin, Q. 175 (2000) 295
Wang, R., see Yang, C. 175 (2000) 247
Wang, Z.Y., T. Chen, P. He and T.C. Zuo, Calculation of mode contents of high-power CO_2 laser beam according to the changes of transverse intensity distribution 175 (2000) 215
Weidner, R., see Lancaster, D.G. 175 (2000) 461

Wrage, M., P. Glas, M. Leitner, T. Sandrock, N.N. Elkin, A.P. Napartovich and A.G. Sukharev, Experimental and numerical determination of coupling constant in a multicore fiber 175 (2000) 97
Wu, C.Y., A.R.D. Somervell, T.G. Haskell and T.H. Barnes, Optical Sine transformation and image transmission by using square optical waveguide 175 (2000) 27
Wu, M., see Tan, Q. 175 (2000) 13

Xu, D., see Yao, B. 175 (2000) 375

Yalandin, M.I., see Ginzburg, N.S. 175 (2000) 139
Yan, Y., see Tan, Q. 175 (2000) 13
Yang, C., Y. Zhao, R. Wang and M. Li, Studies of photorefractive crystals of double-doped Ce,Fe:$LiNbO_3$ 175 (2000) 247
Yang, G., J. Wang and K. Wang, Darkness of two entangled fluorescing atoms inside a quantized standing wave cavity 175 (2000) 163
Yao, B., D. Xu and X. Hou, Theoretical analysis of the flash photolysis kinetics of purple membrane 175 (2000) 375
Young, R., see Birch, P. 175 (2000) 347
Yu, J., X. Zheng, F. Liu, A. Buxens and P. Jeppesen, Simultaneous realization wavelength conversion and signal regeneration using a nonlinear optical loop mirror 175 (2000) 173
Yuan, B., Z. Zhou, C. Hou, X. Sun and C. Li, Theoretical study on coupling effect of modulation depth between two photorefractive phase gratings 175 (2000) 233

Zeggel, T., see Lack, D. 175 (2000) 33
Zhao, Y., see Yang, C. 175 (2000) 247
Zheng, X., see Yu, J. 175 (2000) 173
Zhou, Z., see Yuan, B. 175 (2000) 233
Zhu, X., see Armstrong, M. 175 (2000) 201
Ziener, C., see Li, Y. 175 (2000) 477
Zotova, I.V., see Ginzburg, N.S. 175 (2000) 139
Zuo, T.C., see Wang, Z.Y. 175 (2000) 215

ELSEVIER

1 March 2000

Optics Communications 175 (2000) 489–493

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Subject index to volume 175

Editorial Guidelines and Instructions to Authors v

Propagation and scattering

E. Alberdi, M. Lehman, R. Torroba and M. Garavaglia, Entropic propagation of Gaussian and super-Gaussian-like beams 1

Q. Tan, Y. Yan, G. Jin and M. Wu, Diffractive optical array element for realizing uniform spot on the plane non-perpendicular to the optical axis with geometrical shape transform 13

Q. Liu and R. Ohba, A simple real-time method for checking parallelism between the two gratings in Talbot interferometry 19

M. Montoya-Hernández and D. Malacara-Hernández, Polarization effects in interferograms of radial GRIN rods 259

S. Astilean, Ph. Lalanne and M. Palamaru, Light transmission through metallic channels much smaller than the wavelength 265

H. Lück, K.-O. Müller, P. Aufmuth and K. Danzmann, Correction of wavefront distortions by means of thermally adaptive optics 275

J. Masajada, Half-plane diffraction in the case of Gaussian beams containing an optical vortex 289

Q. Lin and L. Wang, Optical resonators producing partially coherent flat-top beams 295

S.N. Khonina, V.V. Kotlyar, R.V. Skidanov, V.A. Soifer, P. Laakkonen and J. Turunen, Gauss–Laguerre modes with different indices in prescribed diffraction orders of a diffractive phase element 301

D. Mugnai, The tunnel effect in electromagnetic propagation 309

M. de Angelis, S. De Nicola, P. Ferraro, A. Finizio and G. Pierattini, Liquid refractometer based on interferometric fringe projection 315

S. Petit, A. Talebpour, A. Proulx and S.L. Chin, Polarization dependence of the propagation of intense laser pulses in air 323

Optical information, image formation and analysis, optical computing

C.Y. Wu, A.R.D. Somervell, T.G. Haskell and T.H. Barnes, Optical Sine transformation and image transmission by using square optical waveguide 27

PII: S0030-4018(00)00554-X

D. Lack, T. Zeggel and O. Bryngdahl, Multi-level image quantization with object-dependent spectral control 33

M.T. Tavassoly and A. Darudi, Reconstruction of interfering wave-fronts by analyzing their interference pattern in three dimensions 43

A. Belafhal, L. Dalil-Essakali and M. Fahad, Fraunhofer diffraction by conical tracks 51

V. Pagé and F. Goudail, Phase encoding the input scene of an optical correlator in the presence of nonoverlapping noise 57

C.-C. Sun, W.-C. Su, B. Wang and Y. OuYang, Diffraction selectivity of holograms with random phase encoding 67

P.C. Mogensen and J. Glückstad, Dynamic array generation and pattern formation for optical tweezers 75

C. Vannier, C. Bainier and D. Courjon, Isotropic incoherent scanning tunneling optical microscope (I^2STOM) 83

A. Barty, K.A. Nugent, A. Roberts and D. Paganin, Quantitative phase tomography 329

R. Castañeda and J. Bohórquez-Ballén, Spatial coherence beams in critical illumination for optical microscopes 337

P. Birch, R. Young, C. Chatwin, M. Farsari, D. Budgett and J. Richardson, Fully complex optical modulation with an analogue ferroelectric liquid crystal spatial light modulator 347

Optical communications

S. Sumriddetchkajorn and N.A. Riza, Fiber-connectorized multiwavelength 2×2 switch structure using a fiber loop mirror 89

M. Wrage, P. Glas, M. Leitner, T. Sandrock, N.N. Elkin, A.P. Napartovich and A.G. Sukharev, Experimental and numerical determination of coupling constant in a multicore fiber 97

A. Tonello, A.D. Capobianco, S. Wabnitz and S.K. Turitsyn, Tuning of in-line filter position for dispersion-managed soliton transmission 103

S.K. Kim and J. Jeong, Transmission performance on frequency response of receivers and chirping shape of transmitters for 10 Gb/s $LiNbO_3$ modulator based lightwave systems 109

C.C. Lee and S. Chi, The improvement of composite triple-beat distortion induced by cross-phase-modulation in wavelength-division-multiplexing CATV transmission systems with chirped fiber grating compensator 125

S.K. Khijwania and B.D. Gupta, Maximum achievable sensitivity of the fiber optic evanescent field absorption sensor based on the U-shaped probe 135

K. Murugesan and V.C. Ravichandran, Performance analysis of multiwavelength OOCDMA fiber-optic networks 353

P.C. Reeves-Hall, S.A.E. Lewis, D.G. Moodie, S.V. Chernikov and J.R. Taylor, Simultaneous modulation of several WDM channels using a single electro-absorption modulator 361

P. Toliver, R.J. Runser, I. Glesk and P.R. Prucnal, Comparison of three nonlinear interferometric optical switch geometries 365

Atomic and molecular physics

N.S. Ginzburg, A.S. Sergeev, Yu.V. Novozhilova, I.V. Zotova, R.M. Rosenthal, A.D.R. Phelps, A.W. Cross, P. Aitken, V.G. Shpak, M.I. Yalandin, S.A. Shunailov and M.R. Ulmaskulov, Experimental observation of Cherenkov superradiance from an intense electron bunch 139

B. Yao, D. Xu and X. Hou, Theoretical analysis of the flash photolysis kinetics of purple membrane 375

Condensed matter

S. Kuchinsky, D.C. Allan, N.F. Borrelli and J.-C. Cotteverte, 3D localization in a channel waveguide in a photonic crystal with 2D periodicity 147

P. Cheyssac, V.A. Sterligov, S.I. Lysenko and R. Kofman, Scattering of surface plasmon-polaritons and light by metallic nanoparticles 383

Quantum optics

A. Cives-Esclop, A. Luis and L.L. Sánchez-Soto, Unbalanced homodyne detection with a weak local oscillator 153

G. Yang, J. Wang and K. Wang, Darkness of two entangled fluorescing atoms inside a quantized standing wave cavity 163

Laser physics and laser sources

J. Yu, X. Zheng, F. Liu, A. Buxens and P. Jeppesen, Simultaneous realization wavelength conversion and signal regeneration using a nonlinear optical loop mirror 173

P.S. Golding, S.D. Jackson, P.-K. Tsai, B.C. Dickinson and T.A. King, Efficient high power operation of a Tm-doped silica fiber laser pumped at 1.319 μm 179

R.S. Conroy, J.J. Hewett, G.P.T. Lancaster, W. Sibbett, J.W. Allen and K. Dholakia, Characterisation of an extended cavity violet diode laser 185

R. Hua, S. Wada and H. Tashiro, Principles and limitations of a quarter-wave plate for reducing the depolarization loss from thermally induced birefringence in Nd:YAG lasers 189

M. Armstrong, X. Zhu, J. Montgomery and R.J.D. Miller, Novel composite structure Nd:YAG gain media for high power scaling of side-pumped configurations 201

F. Koch, S.V. Chernikov and J.R. Taylor, Dispersion measurement in optical fibres over the entire spectral range from 1.1 μm to 1.7 μm 209

Z.Y. Wang, T. Chen, P. He and T.C. Zuo, Calculation of mode contents of high-power CO_2 laser beam according to the changes of transverse intensity distribution 215

P. Laperle, R. Vallée and A. Chandonnet, Stability aspects in the operation of a 2500-ppm thulium-doped ZBLAN fiber laser at 481 nm 221

I.E. Mazets and L.B. Shifrin, Theory of laser beam propagation through a vapor cell in the collision-free optical pumping regime 227

D. Parsons-Karavassilis, R. Jones, M.J. Cole, P.M.W. French and J.R. Taylor, Diode-pumped all-solid-state ultrafast Cr:LiSGAF laser oscillator–amplifier system applied to laser ablation 389

G.J. Crofts and M.J. Damzen, Numerical modelling of continuous-wave holographic laser oscillators 397

R. Jason Jones, J.-C. Diels, J. Jasapara and W. Rudolph, Stabilization of the frequency, phase, and repetition rate of an ultra-short pulse train to a Fabry–Perot reference cavity 409

T.X. Phuoc, Laser spark ignition: experimental determination of laser-induced breakdown thresholds of combustion gases 419

Nonlinear optics

B. Yuan, Z. Zhou, C. Hou, X. Sun and C. Li, Theoretical study on coupling effect of modulation depth between two photorefractive phase gratings 233

W. Chao, Dynamical behaviour of unbounded spatial solitons in self-defocusing media with small $\chi^{(5)}$ self-focusing nonlinearity 239

C. Yang, Y. Zhao, R. Wang and M. Li, Studies of photorefractive crystals of double-doped Ce,Fe:$LiNbO_3$ 247

M.-Y. Jeon, H.K. Lee, J.T. Ahn, D.S. Lim, D.I. Chang and K.H. Kim, All-optical demultiplexing scheme using an optical parametric loop mirror 253

N.V. Tabiryan and C. Umeton, Measurement of energy density and duration of ultrashort incoherent light pulses with the aid of liquid crystals 425

J.O. Dimmock, P.P. Banerjee, F.L. Madarasz and N.V. Kukhtarev, Steady state analysis of self-organization of light into a scattering ring due to induced reflection gratings in photorefractive materials 433

M.R. Junnarkar and N. Uesugi, Near two-photon resonance short pulse compression in atomic noble gases 447

D.G. Lancaster, R. Weidner, D. Richter, F.K. Tittel and J. Limpert, Compact CH_4 sensor based on difference frequency mixing of diode lasers in quasi-phasematched $LiNbO_3$ 461

N.F. Smyth, Soliton-effect compression and dispersive radiation 469

Errata

H. Ichikawa and K. Minoshima, Erratum to "Femtosecond laser pulses diffracted by dielectric transmission gratings in the resonance-domain" [Opt. Commun. 163 (1999) 243–251] 257

Y. Li, H. Schillinger, C. Ziener and R. Sauerbrey, Erratum to "Reinvestigation of the Duguay soft X-ray laser: a new parameter space for high power femtosecond laser pumped systems" [Opt. Commun. 144 (1997) 118–124] 477

P.C. Ke and M. Gu, Erratum to "Dependence of strength and depolarization of scattered evanescent waves on the size of laser-trapped dielectric particles" [Opt. Commun. 171 (1999) 205–211] 479